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AU6866500A 20010326

Title: (ENG) Chromone derivatives, process for the preparation of the same and uses thereof

Application Number: AU 6866500 D

Application (Filing) Date: 20000831

Priority Data: JP 24741899 19990901 A X; JP 0005910 20000831 W V;

Inventor(s): YASUMA TSUNEO ; KAWASE MASAHIRO ; MORI AKIRA

Assignee/Applicant/Grantee: TAKEDA CHEMICAL INDUSTRIES LTD

IPC (International Class): C07D31124; C07D40512; C07D41312; C07D41712; A61K031352; A61K0314178; A61K031422; A61K031427; A61K031453; A61K0315377; A61P01908; A61P01902; A61P01910; A61P02900

Other Abstracts for Family Members: CHEMABS134(14)193450P; DERABS C2001-257693

EPO Register

EP1211251A1 20020605 FullText

Title: (ENG) CHROMONE DERIVATIVES, PROCESS FOR THE PREPARATION OF THE SAME AND USES THEREOF

Abstract: (ENG)

The invention provides chromone derivatives of the following general formula, a process for preparing such chromone derivatives and a prophylactic and therapeutic agent comprising such chromone derivatives for bone diseases and chondropathy: wherein the ring A is an optionally substituted benzene ring; R1 is an optionally substituted non- aromatic heterocyclic group; R2 is a hydrogen atom or hydrocarbon group; R3 is a hydrogen atom, hydrocarbon group or halogen; n is an integer of 0-3; or a salt thereof.

Application Number: EP 00956835 A

Application (Filing) Date: 20000831

Priority Data: JP 0005910 20000831 W V; JP 24741899 19990901 A I;

Inventor(s): YASUMA TSUNEO JP ; KAWASE MASAHIRO JP ; MORI AKIRA JP

Assignee/Applicant/Grantee: TAKEDA CHEMICAL INDUSTRIES LTD JP

Last Modification Date: 20050202

IPC (International Class): C07D31124; C07D40512; C07D41312; C07D41712; A61K031352; A61K0314178; A61K031422; A61K031427; A61K031453; A61K0315377; A61P01908; A61P01902; A61P01910; A61P02900

ECLA (European Class): C07D40512; C07D31124; C07D40512; C07D41312; C07D41712; C07D49304

Designated Countries:

- Designated States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Publication Language: ENG

Agent(s): Lewin, John Harvey et al 00033035 Takeda Patent Office, 11-12Charles II Street London SW1Y 4QU GB

Other Abstracts for Family Members: CHEMABS134(14)193450P; DERABS C2001-257693

Non-Patent Citations:

- See also references of WO 0116127A1

Patents Cited:

→ BE654149 A X 0

→ DE2132260 A X 0

Additional Information:

- Date of Application deemed Withdrawn 20040629
- Date of request for examination 20020308
- Date of dispatch of first examination report 20030611
- Patent bulletin/ gazette information 20050126 200504
- Date of drawing up and dispatch of supp. search report(A4) 20030220
- PCT application data JP2000005910 20000831 JPN
- PCT publication data WO2001016127 20010308 200110

EPO RegisterEP1211251A4 ☐ 20030409 [FullText](#)**Title:** (ENG) CHROMONE DERIVATIVES, PROCESS FOR THE PREPARATION OF THE SAME AND USES THEREOF**Abstract:** (ENG)

The invention provides chromone derivatives of the following general formula, a process for preparing such chromone derivatives and a prophylactic and therapeutic agent comprising such chromone derivatives for bone diseases and chondropathy: wherein the ring A is an optionally substituted benzene ring; R1 is an optionally substituted non- aromatic heterocyclic group; R2 is a hydrogen atom or hydrocarbon group; R3 is a hydrogen atom, hydrocarbon group or halogen; n is an integer of 0-3; or a salt thereof.

Application Number: EP 00956835 A**Application (Filing) Date:** 20000831**Priority Data:** JP 0005910 20000831 W V; JP 24741899 19990901 A I;**Inventor(s):** YASUMA TSUNEO JP ; KAWASE MASAHIRO JP ; MORI AKIRA JP**Assignee/Applicant/Grantee:** TAKEDA CHEMICAL INDUSTRIES LTD JP**Last Modification Date:** 20050202**IPC (International Class):** C07D31124; C07D40512; C07D41312; C07D41712; A61K031352; A61K0314178; A61K031422; A61K031427; A61K031453; A61K0315377; C07D49304**ECLA (European Class):** C07D40512; C07D31124; C07D40512; C07D41312; C07D41712; C07D49304**Designated Countries:**

- Designated States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Publication Language: ENG**Agent(s):** Lewin, John Harvey et al 00033035 Takeda Patent Office, 11-12 Charles II Street London SW1Y 4QU GB**Other Abstracts for Family Members:** CHEMABS134(14)193450P; DERABS C2001-257693**Non-Patent Citations:**

- See also references of WO 0116127A1

Patents Cited:

- BE654149 A X 0
- DE2132260 A X 0

Additional Information:

- Date of Application deemed Withdrawn 20040629
- Date of request for examination 20020308
- Date of dispatch of first examination report 20030611
- Patent bulletin/ gazette information 20050126 200504
- Date of drawing up and dispatch of supp. search report(A4) 20030220
- PCT application data JP2000005910 20000831 JPN
- PCT publication data WO2001016127 20010308 200110

JP2001139571A ☐ 20010522 [FullText](#)**Title:** (ENG) CHROMONE DERIVATIVE, METHOD FOR PRODUCING THE SAME, AND USE**Abstract:** (ENG)

PROBLEM TO BE SOLVED: To provide a chromone derivative having a remarkably excellent osteoplastic-promoting action, to provide a method for producing the same, and also to provide the use of the same.

SOLUTION: This compound represented by the formula [the ring A is a benzene ring which may have one or more substituents; R1 is a non- aromatic heterocyclic

group which may have one or more substituents; R₂ is hydrogen atom or a hydrocarbon group; R₃ is hydrogen atom, a hydrocarbon group or a halogen; (n) is an integer of 0 to 3] or its salt is useful as a medicine for preventing treating bone diseases, chondropathy and fracture, because of having a remarkably excellent osteoplasty-promoting action.

Application Number: JP 2000268389 A

Application (Filing) Date: 20000831

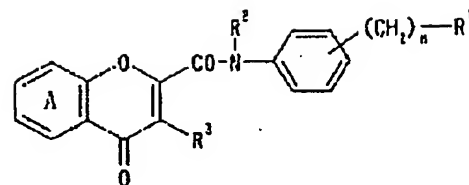
Priority Data: JP 2000268389 20000831 A X; JP 24741899 19990901 A X;

Inventor(s): YASUMA TSUNEO ; KAWASE MASAHIRO ; MORI AKIRA

Assignee/Applicant/Grantee: TAKEDA CHEMICAL INDUSTRIES LTD

IPC (International Class): C07D40112; A61K031422; A61P01908; C07D41312

Other Abstracts for Family Members: CHEMABS134(14)193450P; DERABS C2001-257693



US6552054B1 ☐ 20030422 FullText

Title: (ENG) Chromone derivatives, process for the preparation of the same and uses thereof

Abstract: (ENG)

The invention provides chromone derivatives of the following general formula, a process for preparing such chromone derivatives and a prophylactic and therapeutic agent comprising such chromone derivatives for bone diseases and chondropathy:

wherein the ring A is an optionally substituted benzene ring; R₁ is an optionally substituted non-aromatic heterocyclic group; R₂ is a hydrogen atom or hydrocarbon group; R₃ is a hydrogen atom, hydrocarbon group or halogen; n is an integer of 0-3; or a salt thereof.

Application Number: US 7015002 A

Application (Filing) Date: 20020301

Priority Data: JP 24741899 19990901 A A; JP 0005910 20000831 W V;

Inventor(s): YASUMA TSUNEO JP ; KAWASE MASAHIRO JP ; MORI AKIRA JP

Assignee/Applicant/Grantee: TAKEDA CHEMICAL INDUSTRIES LTD JP

Last Modification Date: 20041026

IPC (International Class): A61K031425; A61K03142; A61K03135

ECLA (European Class): C07D31124; C07D40512; C07D40512; C07D41312; C07D41712; C07D41712; C07D49304

US Class: 514365; 5142335; 514320; 514376; 514456; 549402; 548183; 548192; 548215; 548226; 546196; 544151

Agent(s): Chao Mark ; Ramesh Elaine M.

Examiner Primary: Owens, Amelia

Other Abstracts for Family Members: CHEMABS134(14)193450P; DERABS C2001-257693

Non-Patent Citations:

- Raposo, Cesar; Almaraz, Marta; Martin, Mercedes; Alcazar, Victoria; Caballero, Ma Crus; Moran, Joaquin R. 'The effect of chromenone receptors on theselectivity of the reaction between pyrrolidine and 5-hydroxymethyl-2(5H)-furanone' 1997.*
- Sohda, Takashi; Taketomi, Shigehisa; Oda, Tsuneo 'Benzopyran derivatives andtheir use' 1995.

Patents Cited:

→ JP256358 20000900 OTHER

→ WO6550 20000200 OTHER

Assignments Reported to USPTO:

Reel/Frame: 12810/0965 **Date Signed:** 20020201

Date Recorded: 20020301

Assignee: TAKEDA CHEMICAL INDUSTRIES LTD. INTELLECTUAL PROPERTY DEPARTMENT 1-1, DOSHOMACHI 4-CHOME, CHUO-KU OSAKA 540-8 JAPAN

Assignor: KAWASE, MASAHIRO; MORI, AKIRA; YASUMA, TSUNEO

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Brief: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Additional Information:

- Number of claims 18
- Exemplary claim number(s) 1
- National classifications searched , 549402 , 544151 , 548183 , 548192 , 548215 , 548226 , 514456 , 5142335 , 514376 , 514365 , 514320 , 546196
- Number of drawing sheets 0
- Number of figures 0
- PCT application data JP0005910 20000831 WO
- PCT publication data WO0116127 20010803 WO A

EPO Register

WO2001016127A1 ☐ **20010308** FullText

Title: (ENG) CHROMONE DERIVATIVES, PROCESS FOR THE PREPARATION OF THE SAME AND USES THEREOF

Abstract: (ENG)

Chromone derivatives represented by general formula (I) or salts thereof; a process for the preparation thereof; and preventive or therapeutic agents for bone diseases, cartilage diseases or fracture, containing the derivatives or the salts. In said formula (I) A is an optionally substituted benzene ring; R 1 is an optionally substituted nonaromatic heterocyclic group; R 2 is hydrogen or hydrocarbyl; R3 is hydrogen, hydrocarbyl, or halogeno; and n is an integer of 0 to 3.

Application Number: JP 0005910 W

Application (Filing) Date: 20000831

Priority Data: JP 24741899 19990901 A I;

Inventor(s): YASUMA TSUNEO JP ; KAWASE MASAHIRO JP ; MORI AKIRA JP

Assignee/Applicant/Grantee: TAKEDA CHEMICAL INDUSTRIES LTD JP; YASUMA TSUNEO JP; KAWASE MASAHIRO JP; MORI AKIRA JP

Last Modification Date: 20050526

IPC (International Class): C07D31124; C07D40512; C07D41312; C07D41712; A61K031352; A61K0314178; A61K031422; A61K031427; A61K031453; A61K0315377; A61P01908; A61P01902; A61P01910; A61P02900

ECLA (European Class): C07D41712; C07D31124; C07D40512; C07D40512; C07D41312; C07D41712; C07D49304

Designated Countries:

- Designated States: AE AG AL AM AU AZ BA BB BG BR BY BZ CA CN CR CU CZ DM DZ EE GD GE HR HU ID IL IN IS JP KG KR KZ LC LK LR LT LV MA MD MG MK MN MX MZ NO NZ PL RO RU SG SI SK TJ TM TR TT UA US UZ VN YU ZA
- Regional Treaties: GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: JAP

Agent(s): TAKAHASHI, Shuichi Osaka Plant of Takeda Chemical Industries, Ltd., 17-85, Jusohonmachi 2-chome, Yodogawa-ku, Osaka-shi, Osaka 532-0024 JP

Other Abstracts for Family Members: CHEMABS134(14)193450P; DERABS C2001-257693

Other Abstracts for This Document: CHEMABS134(14)193450P; DERABS C2001-257693

Non-Patent Citations:

- CESAR RAPOSO ET AL.: 'The effect of chromenone receptors on the selectivity of the reaction between pyrrolidine and 5-hydroxymethyl-2-(5H)-furanone' CHEM. LETT. no. 2, 1997, pages 173 - 174, XP002935175
- See also references of EP 1211251A1

Patents Cited:

- EP0625522 A X O
- WO0006550 A XP O
- JP2000256358 A XP O



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